Root Keys:

- "info": Provides important metadata about the dataset and github related to it.
 - o Description
 - o Url
 - Version
 - Year
 - Contributor
 - Date Created
- "licenses": Contains licensing information
 - License ID
 - Name of License
 - URL for License
- "images": Lists details about the images in the dataset.
 - License ID
 - o Image ID Image ID associated with respective file name of image
 - File name ("file_name") Name of the file (jpeg, png, etc.)
 - o Dimensions "width", "height"
 - Background ("background") Integer (Need to look into this)
- "annotations": Contains information on the annotations itself.
 - Annotation ID
 - Image ID ("image_id")- Identifies image from images key containing data for images
 - Category ID ("category_id") Identifies the animal category and type using the category key
 - Bounding Boxes ("bbox") list([x, y, w, h]); x, y, width, height,
 - area Segmentation area (integer usually)
 - IsCrowd Flag for whether picture is a crowd of animals or not (0 meaning it isn't)
 - o num keypoints Number of labeled key points total (Up to 17)
 - Key points list([x, y, v]); x, y, v (v=0 not labeled, v=1: labeled but not visible, and v=2: labeled and visible)
- "categories": Describes categories or classes of objects/animals within the dataset.
 - Category ID ("id") ID to identify type of animal in annotations
 - Animal Name Type of animal inside image (eg. Antelope)
 - Super Category Type of animal (eg. Bovidae)
 - Key Points What the keypoints are called and indexing for the annotations
 - Skeleton Defines connectivity via a list of keypoint edge pairs (from the list above) used for visualization

Example:

AP-10K

- dict keys(['info', 'licenses', 'images', 'annotations', 'categories'])
- data['info'] {'description': 'AP-10k', 'url':
 'https://github.com/AlexTheBad/AP-10K', 'version': '1.0', 'year': 2021, 'contributor': 'AP-10k Team', 'date_created': '2021/07/01'}
- data['images'][0] {'license': 1, 'id': 102, 'file_name': '000000000102.jpg', 'width': 1024, 'height': 681, 'background': 5}
- data['categories'][0] {'id': 1, 'name': 'antelope', 'supercategory': 'Bovidae', 'keypoints': ['left_eye', 'right_eye', 'nose', 'neck', 'root_of_tail', 'left_shoulder', 'left_elbow', 'left_front_paw', 'right_shoulder', 'right_elbow', 'right_front_paw', 'left_hip', 'left_knee', 'left_back_paw', 'right_hip', 'right_knee', 'right_back_paw'], 'skeleton': [[1, 2], [1, 3], [2, 3], [3, 4], [4, 5], [4, 6], [6, 7], [7, 8], [4, 9], [9, 10], [10, 11], [5, 12], [12, 13], [13, 14], [5, 15], [15, 16], [16, 17]]}

Sources:

https://github.com/facebookresearch/Detectron/issues/640 https://github.com/jin-s13/COCO-WholeBody/blob/master/data_format.md https://github.com/cocodataset/cocoapi/issues/36 https://www.v7labs.com/blog/coco-dataset-guide#images